



TRUSCON

HOLLOW METAL

DOORS AND FRAMES

1960 CATALOG



REPUBLIC STEEL CORPORATION • TRUSCON DIVISION

YOUNGSTOWN 1, OHIO

TRUSCON 1 $\frac{3}{4}$ " HOLLOW METAL DOORS AND FRAMES—SERIES 57

FOR RESIDENTIAL, COMMERCIAL AND PUBLIC BUILDINGS



Truscon 1 $\frac{3}{4}$ " Hollow Metal Doors are designed for exterior or interior use. Fabricated of heavy gauge steel, doors are reinforced, welded and sound deadened to eliminate metallic sounds in normal operation. They are adaptable for residential and industrial construction, and are particularly recommended for monumental structures including schools and hospitals. Bonderized and primed with a high quality light gray paint baked on at the factory, the finish affords a perfect base for field painting in any color.

The Series 57 Hollow Metal Door is inherently fire resistant. No warping or shrinking due to atmospheric changes is ever encountered. Doors always operate freely and require a minimum of maintenance.

Doors are available in flush panel, half glass, full glass and vision panel designs, and may also be equipped with integral pierced louvers. Combinations of these designs are also stocked.

SPECIFICATIONS

1. General — Doors and frames shall be Truscon Hollow Metal Doors and Frames, Series 57, as manufactured by the Republic Steel Corporation, Truscon Division, Youngstown, Ohio.

2. Materials and Construction — Doors shall be of flush construction, 1 $\frac{3}{4}$ " in thickness. Door stiles shall be 5 $\frac{1}{2}$ " wide, of formed 16 gauge steel, reinforced for hinges and prepared to receive either cylindrical or mortise type locks, as required. Reinforcements shall consist of specially formed steel plates, securely and accurately welded in place, and provided with tapped holes where required for attachment of standard Truscon hardware.

Panels shall be of 18 gauge prime quality cold rolled steel, spot welded to 18 gauge channels at each vertical edge. Panel assembly shall be reinforced at approximately 17" centers, alternating at front and rear so that a horizontal stiffener occurs at approximately every 8 $\frac{1}{2}$ ". Stiffener shall consist of U-shaped transverse sections formed of 24 gauge steel, welded to the inside of the panel. Panel assembly shall be rigidly interlocked with stiles, and the top and bottom of doors reinforced and closed with 14 gauge steel channels securely spot welded to the inside of both panels and stiles.

In addition, doors for exterior use shall be fitted with a channel filler of 18 gauge steel at the head. Double swing doors shall have steel astragal attached to the inactive leaf.

Doors requiring glass lights or glass panels shall be of types standard with manufacturer and as illustrated in current catalog. Muntins and glazing moldings shall be of 18 gauge steel, and arranged for glazing with glass of $\frac{1}{4}$ " thickness. All glazing moldings shall be of the snap-on type, with no exposed screws.

3. Sound Deadener — All doors shall have sound deadening material of an approved type applied to the interior surface of panels. Sound deadener shall eliminate all metallic reverberations incident to normal door operation. The sound deadener consists of a composition felt material applied to the interior surface of the panels.

4. Hardware — All door hardware and provisions for same shall be of manufacturer's standard design.

(a) Hinges: Shall be full mortise template butt hinges 4 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ ", loose pin type. Three hinges per door leaf for leaves up to 7'-6" in height. Hinges shall be (select one): (1) steel, prime painted; (2) steel, 2-race ball bearing, prime painted; (3) bronze, U. S. 10 finish, 2-race ball bearing.

For structural steel frames, furnish hinges as previously described, except they shall be of the half-mortise type.

(b) Locks: Shall be (select one):

(1) Heavy duty bronze cylindrical locks, Government Series

Also available is a wide range of heavy duty hardware in handsome modern designs and finishes as illustrated and described in the following pages.

Pressed steel frames for Series 57 Hollow Metal Doors of 16 gauge steel are 5 $\frac{1}{2}$ " deep in double rabbeted design — permitting installation of screen doors. Frames are shipped knocked down for simple field assembly by clinching tabs at upper corners.

All doors and frames are reinforced and prepared for hinges and locks as described and may be furnished with surface applied closer reinforcements. Factory preparation for these items eliminates costly and time consuming field work. Warehouse stock doors and frames include many sizes and types normally required for the average project. They are available with preparation for cylindrical locksets (2 $\frac{3}{4}$ " backset) in accordance with Federal Specification FF-H-106a, Series 161 locks; or with preparation for mortise locksets in accordance with Federal Specification FF-H-106a, Series 86 locks. Warehouse type doors available prepared for standard Truscon Panic Exit hardware.

161, in function as required. Finish shall be bronze, U. S. 10.

(2) Heavy duty bronze mortise locks, Government Series 86, in function as required, complete with escutcheons, knobs and keys.

All locks shall be furnished complete with strikes and machine screws for attachment.

(c) Door Closers (where required): Door closers shall be cast iron, painted, U. S. Government Type 3001. Furnish corner brackets where required.

(d) Double Swing Doors shall have the inactive leaf prepared for standard Truscon surface applied top and bottom bolts.

(e) Miscellaneous Hardware Requirements: Where called for on drawings, or where specified, the following hardware items as illustrated and described in door manufacturer's current catalog shall be furnished (delete inapplicable items): (1) Panic Exit Hardware (specify set number). (2) Door Stops. (3) Push and Pull Plates. (4) Push and Pull Bars. (5) Kick Plates. (6) Thresholds.

5. Frames — Frames shall be fabricated of 16 gauge steel in a double rabbeted design. Depth of the frame shall be 5 $\frac{1}{2}$ ", with face 2" wide. All frames shall be furnished knocked down and designed for simple field assembly of header to jamb members by tenons, forming square and rigid corners with tenons bent in place to securely lock the assembly. Frame shall be prepared and reinforced for standard hinges and lock strike, and equipped with dust box for strike. Standard floor anchors and three stud or masonry wall anchors per jamb shall be furnished. The lock side member of frame shall be prepared for three rubber mutes, which shall be furnished for field attachment.

6. Louvers — Louvers shall be of the fixed type, stamped into door panels and in accordance with manufacturer's standard design as illustrated in current catalog.

7. Shop Finish — All doors, frames and collateral steel items shall be bonderized and primed with one coat of light gray (phenol-resin) paint oven-baked for one hour at 350° Fahrenheit.

8. Erection (By Others) — Frames shall be installed plumb, rigid and in true alignment, with all clearances accurately maintained. Doors shall be hung, and all hardware attached after finish painting.












9. Glazing — (By Glazing Contractor) — All glass shall be of $\frac{1}{4}$ " thickness, bed puttied and held in place by glazing moldings furnished by door manufacturer. Glazing shall be done prior to finish painting.

Note: We reserve the right to amend specifications and details, without notice, in the interest of product improvement.

TRUSCON 1 $\frac{3}{4}$ " HOLLOW METAL DOORS AND FRAMES—SERIES 57

TYPES AND SIZES

LEAF DESIGN AND GLASS SIZES

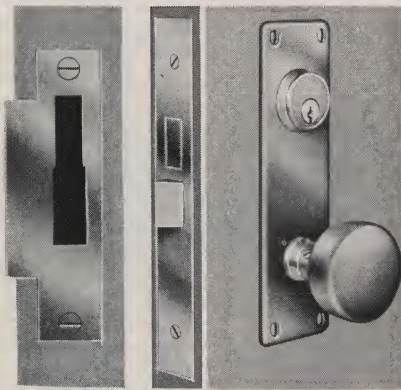
SINGLE SWING DOORS													
Single Swing Type	Door Opening Dimensions		FP	HG-1	HG-2	HG-3	HG-4	HG-6	FG	VP	HG-1 L2B	L2B	L2TB
	Width	Height		Glass Size	Glass Size	Glass Size	Glass Size	Glass Size	Glass Size	Glass Size	Glass Size		
2068	2'-0"	6'-8"		11" x 30"	11" x 14 $\frac{3}{4}$ "	11" x 9 $\frac{3}{8}$ "			11" x 56"	10" x 10"	11" x 30"		
2070	2'-0"	7'-0"		11" x 34"	11" x 16 $\frac{3}{4}$ "	11" x 11"			11" x 60"	10" x 10"	11" x 34"		
2468	2'-4"	6'-8"		15" x 30"	15" x 14 $\frac{3}{4}$ "	15" x 9 $\frac{3}{8}$ "	7 $\frac{1}{4}$ " x 14 $\frac{3}{4}$ "	7 $\frac{1}{4}$ " x 9 $\frac{3}{8}$ "	15" x 56"	10" x 10"	15" x 30"		
2470	2'-4"	7'-0"		15" x 34"	15" x 16 $\frac{3}{4}$ "	15" x 11"	7 $\frac{1}{4}$ " x 16 $\frac{3}{4}$ "	7 $\frac{1}{4}$ " x 11"	15" x 60"	10" x 10"	15" x 34"		
2668	2'-6"	6'-8"		17" x 30"	17" x 14 $\frac{3}{4}$ "	17" x 9 $\frac{3}{8}$ "	8 $\frac{1}{4}$ " x 14 $\frac{3}{4}$ "	8 $\frac{1}{4}$ " x 9 $\frac{3}{8}$ "	17" x 56"	10" x 10"	17" x 30"		
2670	2'-6"	7'-0"		17" x 34"	17" x 16 $\frac{3}{4}$ "	17" x 11"	8 $\frac{1}{4}$ " x 16 $\frac{3}{4}$ "	8 $\frac{1}{4}$ " x 11"	17" x 60"	10" x 10"	17" x 34"		
2868	2'-8"	6'-8"		19" x 30"	19" x 14 $\frac{3}{4}$ "	19" x 9 $\frac{3}{8}$ "	9 $\frac{1}{4}$ " x 14 $\frac{3}{4}$ "	9 $\frac{1}{4}$ " x 9 $\frac{3}{8}$ "	19" x 56"	10" x 10"	19" x 30"		
2870	2'-8"	7'-0"		19" x 34"	19" x 16 $\frac{3}{4}$ "	19" x 11"	9 $\frac{1}{4}$ " x 16 $\frac{3}{4}$ "	9 $\frac{1}{4}$ " x 11"	19" x 60"	10" x 10"	19" x 34"		
3068	3'-0"	6'-8"		23" x 30"	23" x 14 $\frac{3}{4}$ "	23" x 9 $\frac{3}{8}$ "	11 $\frac{1}{4}$ " x 14 $\frac{3}{4}$ "	11 $\frac{1}{4}$ " x 9 $\frac{3}{8}$ "	23" x 56"	10" x 10"	23" x 30"		
3070	3'-0"	7'-0"		23" x 34"	23" x 16 $\frac{3}{4}$ "	23" x 11"	11 $\frac{1}{4}$ " x 16 $\frac{3}{4}$ "	11 $\frac{1}{4}$ " x 11"	23" x 60"	10" x 10"	23" x 34"		
3468	3'-4"	6'-8"		27" x 30"	27" x 14 $\frac{3}{4}$ "	27" x 9 $\frac{3}{8}$ "	13 $\frac{1}{4}$ " x 14 $\frac{3}{4}$ "	13 $\frac{1}{4}$ " x 9 $\frac{3}{8}$ "	27" x 56"	10" x 10"	27" x 30"		
3470	3'-4"	7'-0"		27" x 34"	27" x 16 $\frac{3}{4}$ "	27" x 11"	13 $\frac{1}{4}$ " x 16 $\frac{3}{4}$ "	13 $\frac{1}{4}$ " x 11"	27" x 60"	10" x 10"	27" x 34"		
3868	3'-8"	6'-8"		31" x 30"	31" x 14 $\frac{3}{4}$ "	31" x 9 $\frac{3}{8}$ "	15 $\frac{1}{4}$ " x 14 $\frac{3}{4}$ "	15 $\frac{1}{4}$ " x 9 $\frac{3}{8}$ "	31" x 56"	10" x 10"	31" x 30"		
3870	3'-8"	7'-0"		31" x 34"	31" x 16 $\frac{3}{4}$ "	31" x 11"	15 $\frac{1}{4}$ " x 16 $\frac{3}{4}$ "	15 $\frac{1}{4}$ " x 11"	31" x 60"	10" x 10"	31" x 34"		
4068	4'-0"	6'-8"		35" x 30"	35" x 14 $\frac{3}{4}$ "	35" x 9 $\frac{3}{8}$ "	17 $\frac{1}{4}$ " x 14 $\frac{3}{4}$ "	17 $\frac{1}{4}$ " x 9 $\frac{3}{8}$ "	35" x 56"	10" x 10"	35" x 30"		
4070	4'-0"	7'-0"		35" x 34"	35" x 16 $\frac{3}{4}$ "	35" x 11"	17 $\frac{1}{4}$ " x 16 $\frac{3}{4}$ "	17 $\frac{1}{4}$ " x 11"	35" x 60"	10" x 10"	35" x 34"		

NOTES:

- Any of the above doors can be furnished as pairs. Door opening widths to be double that of single doors. Heights remain the same.
- Warehouse stock doors include single swing units indicated in shaded blocks under leaf design. Any warehouse stock door leaf listed above may be modified and used with any similar size single swing door leaf to compose a double swing door. Necessary modifications are made in warehouse.
- Warehouse stock doors and frames are surface reinforced for door closers, when required, at slight additional cost. Drilling to receive closer not included.
- Standard pressed steel frames for stock doors are available from warehouse.
- All sizes and types of doors shown above, but not warehoused, are available for factory shipment.
- Doors and frames are prepared for cylindrical locksets in accordance with Federal Specification FF-H-106a Series 161.
- Doors and frames are prepared for mortise locksets in accordance with Federal Specification FF-H-106a Series 86.
- Doors and frames are available from warehouse stocks provided for standard Truscon panic exit hardware (inside and outside control).

TRUSCON 1 3/4" HOLLOW METAL DOORS AND FRAMES—SERIES 57

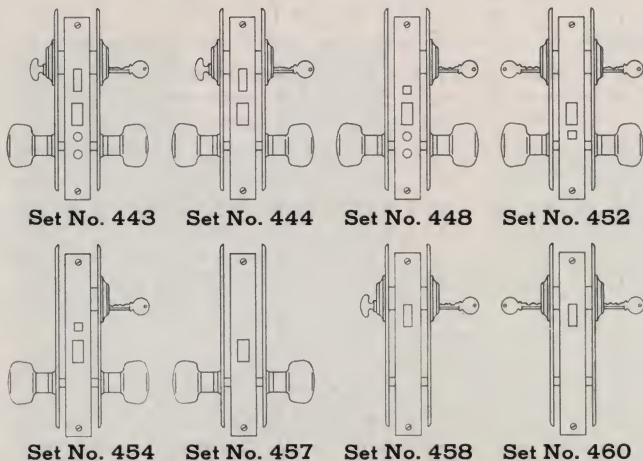
MORTISE LOCKS



MORTISE LOCKSET WITH STRIKE

All locksets shown on this page are heavy duty mortise type and meet Federal Specification FFH-106a for designs as illustrated. Standard finish is bronze, U.S. 10, with U.S. 26D dull chrome finish optional, factory shipment. Locksets are furnished with cylinders keyed different, but keyed alike or masterkeyed cylinders will be furnished when so specified, and at additional cost.

See page 5 for dead-bolt locksets used in conjunction with Push and Pull Handle and Bar hardware.



Set No. 443; Gov't No. 86-A, FRONT DOOR LOCK—Latch bolt by knob from either side, except when outer knob is locked by stop in face. When outer knob is locked, latch bolt by key from outside. Dead bolt by key from outside and thumb turn from inside. Not reversible.

Set No. 444; Gov't No. 86-B, LATCH AND DEADLOCK (ENTRANCE DOOR)—Latch bolt by knob from either side. Dead bolt by key from outside and thumb turn from inside. Reversible. Also available with cylinders both sides (Gov't No. 86C).

Set No. 448; Gov't No. 86-E, OFFICE LOCK—Latch bolt by knob from either side, and from inside at all times. Outer knob is locked by stop in face. When outer knob locked, latch bolt by key from outside. When door is closed, auxiliary bolt deadlocks latch bolt against end pressure. Not reversible.

Set No. 452; Gov't No. 86-G, APARTMENT ENTRANCE, OFFICE DOOR AND PUBLIC TOILET LOCK—Latch bolt by knob from either side except when outer knob locked by stop works controlled by inside cylinder. When outer knob locked, latch bolt by key outside. When door closes, auxiliary bolt deadlocks latch bolt. When specified, inside cylinder by master key only. Not reversible.

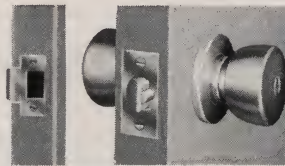
Set No. 454; Gov't No. 86-J, CLASSROOM LOCK—Latch bolt by key from outside and by knob from inside at all times. Latch bolt by knob from outside, except when locked by key. Cylinder controls stop works. When door is closed, auxiliary bolt shall deadlock the latch bolt against end pressure. Not reversible.

Set No. 457; Gov't No. 86-N, KNOB LATCH FOR PASSAGE OR CLOSET DOOR—Latch bolt by knob from either side. Reversible.

Set No. 458; Gov't No. 86-P, DEADLOCK—Dead bolt by key from one side and by thumb turn from other side. Fixed knobs on both sides. Recommended for use with door closer.

Set No. 460; Gov't No. 86-T, DEADLOCK—Dead bolt by key from either side. Fixed knob on hinge side only. Recommended for use with door closer.

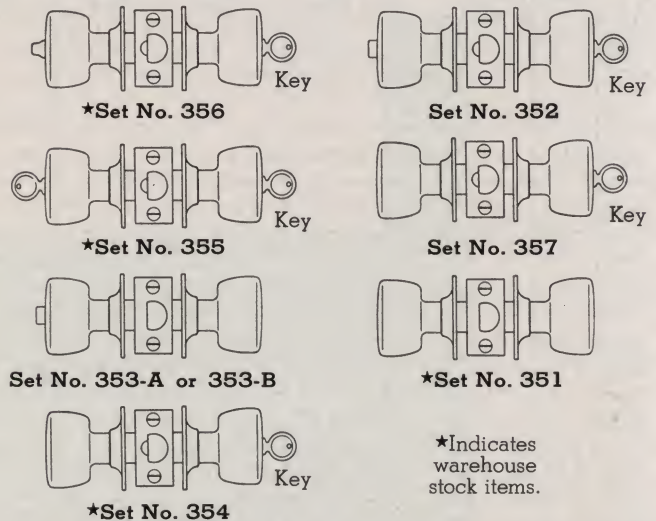
CYLINDRICAL LOCKS



CYLINDRICAL LOCKSET, STRIKE

Cylindrical (key-in-knob type) locks offer convenience and economy. Truscon's standard preparation is for the heavy duty lockset, 2 3/4" backset, Series 161 under Government Specification No. FFH-106a. Pin tumbler cylinder is in knob. Cylinders are furnished keyed different although keyed alike or masterkeyed cylinders are available when required and at slight additional cost.

Standard finish is bronze, U.S. 10, with U.S. 26D dull chrome finish available from factory. On special order, other finishes are available. Illustrated are seven standard locksets, in function as most frequently required. Twelve other locksets comprising the balance of Government functions in Series 161 locks are available on special order. All warehouse stock doors and frames are prepared to receive all locksets shown below.



***Set No. 356; Gov't No. 161-A, FRONT OR OFFICE DOOR LOCK**—Latch bolt from either side by knob, except when outside knob locked by inside turn button. Operable by key or inside knob when outer knob set. Latch bolt automatically deadlocked against end pressure when door closed. Turn button must be manually operated to release outside knob.

Set No. 352; Gov't No. 161-B, OFFICE DOOR LOCK—Latch bolt from either side by knob, except when outside knob locked by inside push button. Turning inside knob or key automatically releases push button and outside knob. Closing door does not release push button or knob. Latch bolt automatically deadlocked against end pressure when door is closed.

***Set No. 355; Gov't No. 161-C, ENTRANCE, OFFICE BUILDING, AND LAVATORY LOCK**—Latch bolt from either side by knob, except when outside knob is locked by inside key. Lock operable by key or inside knob when outside knob locked. Latch bolt automatically deadlocked against end pressure when door is closed.

Set No. 357; Gov't No. 161-D, STOREROOM AND EXIT DOOR LOCK—Latch bolt by outside key and inside knob. Outside knob always locked. Latch bolt automatically deadlocked against end pressure when door is closed.

Set No. 353-A or 353-B; Gov't No. 161-L, BEDROOM AND BATHROOM DOOR LOCK—Latch bolt by knob from either side, except when outside knob locked by inside push button—then by emergency key only. Push button and outside knob automatically released when inside knob turned, and also when door swings into closed position. (Set 353-B for bathroom has chrome finish on inside trim and strike.)

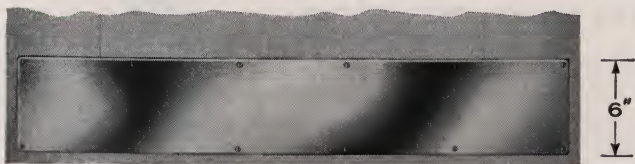
***Set No. 351; Gov't No. 161-N, PASSAGE DOOR—SIMPLE KNOB LATCH**—Latch bolt by knob from either side at all times.

***Set No. 354; Gov't No. 161-R, CLASSROOM DOOR LOCK**—Latch bolt by knobs from either side, except when outside knob locked by key. Latch bolt by inside knob at all times. Latch bolt is automatically deadlocked against end pressure when door is closed.

*Indicates warehouse stock items.

TRUSCON 1 $\frac{3}{4}$ " HOLLOW METAL DOORS AND FRAMES—SERIES 57

MISCELLANEOUS HARDWARE



KICK PLATES

K-6807 Kick Plates are available in bronze, aluminum, or stainless steel. All are 16 gauge in thickness, drilled for screws, and furnished complete for field attachment. Doors to be drilled in field, using kick plate as template.



THRESHOLDS

BP-6804 Thresholds are available in brass or aluminum, 5" wide and $\frac{1}{2}$ " high. Furnished cut to length and proper contour for door frame, drilled and countersunk for installation and complete with screws and expansion shields.

TOP AND BOTTOM BOLTS

*TOP
BOLT

***Set No. 3017**, surface applied. Furnished for inactive leaf of double swing doors. Complete with keepers and screws for attachment.

Standard is bronze, U.S. 10 finish. Also available in cadmium-plated steel.

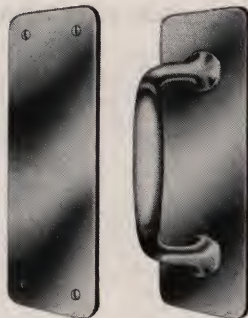
*BOTTOM
BOLT

HOSPITAL ARM PULL

Standard is bronze, U.S. 10 finish. Attached in field, using base as template.

NOTES:

- *Indicates warehouse stock item.
- Unless shown otherwise, all hardware illustrated on this page is bronze, U.S. 10 finish, and is also available in U.S. 26D dull chrome finish. Factory shipment.



PUSH AND PULL PLATES

***Set BP-6537**, shown at left, is standard. Plates are cast bronze, 2 $\frac{1}{2}$ " x 8". Standard finish is bronze, U.S. 10.

Also available is **Set P-3706** (not illustrated), similar in appearance, but 3" x 12" in size.

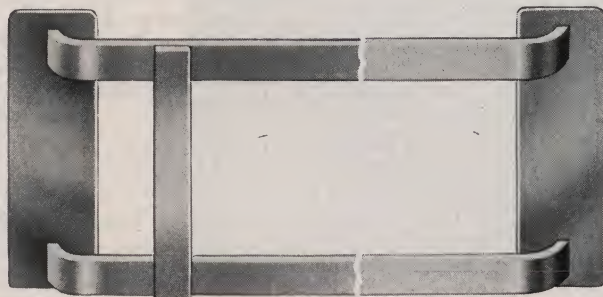
PUSH AND PULL PLATE
DEADBOLT LOCKSETS

***Set No. 372** — (As illustrated, except push plate not shown.) Key cylinder outside and thumb turn inside.

***Set No. 373** — Key cylinder inside and outside.

Set No. 371 — Key cylinder outside; plain push plate inside.

Set No. 370 — Plain push and pull plates. No lock.



PUSH AND PULL BARS

Set No. 366 — Plain Push and Pull Bars only. (Pull Bar assembly illustrated above.)

Set No. 367 — Includes P-6613 deadbolt lock. Pull Bar assembly with key cylinder outside. Plain Push Bar assembly inside.

Set No. 368 — Same as Set No. 367, except inside Push Bar assembly includes thumb turn.

Set No. 369 — Same as Set No. 367, except key cylinders inside and outside.



DOOR STOP

Simple floor-mounted type, furnished complete with screws and expansion shields.

Other designs of floor and wall type door stops are available on special order.

TRUSCON 1 3/4" HOLLOW METAL DOORS AND FRAMES—SERIES 57

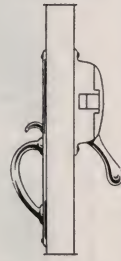
PANIC EXIT HARDWARE—DOOR CLOSERS—HINGES

★ Indicates Warehouse Stock Items

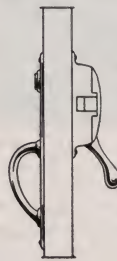
BRONZE PANIC EXIT DEVICES FOR SINGLE SWING DOORS



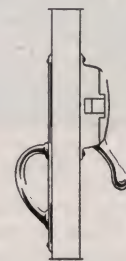
★ No. 5333
x 2513
With
Cylinder



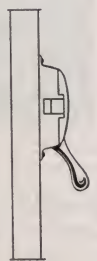
No. 5322
x 2512
No
Cylinder



No. 5311
x 2511
With
Cylinder



No. 5300
x 2510



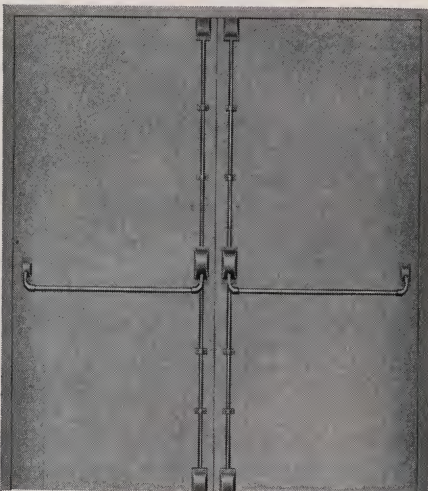
No. 5300

INSIDE AND OUTSIDE CONTROL

INSIDE CONTROL

Typical interior elevation shown at left. All devices illustrated are surface applied. Standard finish is bronze U.S. 10. Also available in U.S. 26D dull chrome finish.

BRONZE PANIC EXIT DEVICES FOR DOUBLE SWING DOORS



No. 5400 x 2510

INSIDE CONTROL



No. 5400



★ No. 5433
x 2513
With Cylinder

INSIDE AND OUTSIDE CONTROL

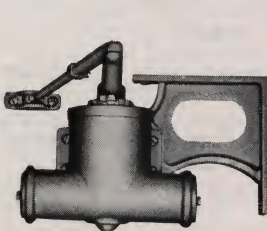


No. 5422
x 2512
No Cylinder

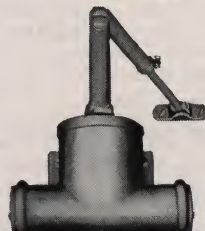


Detail of rubber astragal. Furnished on all double swing doors with panic exit hardware.

Typical interior elevation shown at left. All devices illustrated are surface applied. Standard finish is bronze U.S. 10. Also available in U.S. 26D dull chrome finish.



★ Door Closer P-3534 with corner bracket for Outswing Doors.



★ Door Closer P-3535 for Inswing Doors.

DOOR CLOSERS

Heavy Duty door closers shown at left are Government type 3001, Specification No. FFH-121c. Closers are cast iron, finished in bronze, aluminum or dead black lacquer. Surface-applied reinforcing plates are standard for doors and frames requiring closers. All drilling and tapping for closer attachment is to be performed in the field. Hold-open, Fusible Link, and Hospital Arms are available for use with all closers.

HINGES

Hinges are 4 1/2" x 4 1/2" full mortise template type, loose pin. Also available, but not illustrated, are 4 1/2" half mortise hinges for use in conjunction with structural steel frames.

Three hinges per door leaf furnished on doors up to 7'-6" in height. Furnished complete with screws for attachment and hinge filler clips.

Note: Ball bearing hinges are recommended for doors equipped with closers.



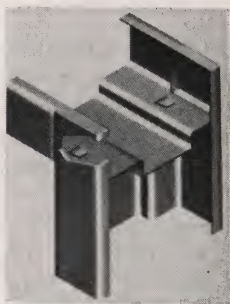
★ P-6577. Steel plain bearing, prime painted.



★ P-6577-A. Steel, 2-race ball bearing, prime painted.

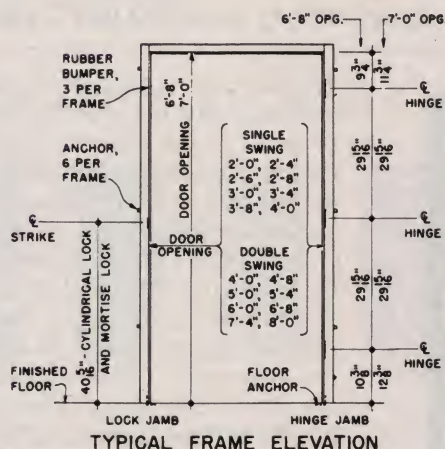
★ P-6577-B. Bronze, 2-race ball bearing, U.S. 10 finish.

FRAMES FOR SWING DOORS

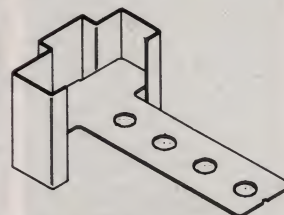


(Patent No. 2601164)

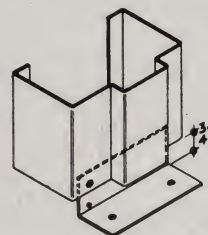
- For rough opening sizes add 4½" in width and 2¼" in height to door opening dimensions.
- Frames are shipped knocked down for field assembly. See illustration at left.
- To determine hand of frames refer to illustration below.
- Factory shipment frames include all sizes shown, and are prepared for standard Truscon hardware as required.



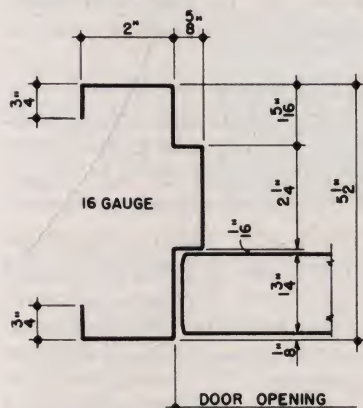
**P-6572 ADJUSTABLE
STUD ANCHOR**



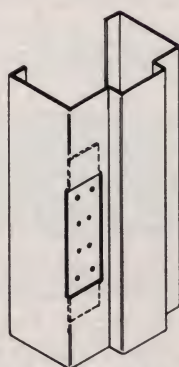
P-6571 ADJUSTABLE MASONRY ANCHOR



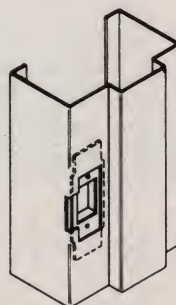
P-6570 ADJUSTABLE
FLOOR ANCHOR
TO SUB-FLOOR



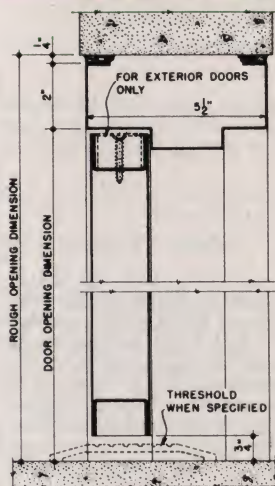
FRAME DETAIL



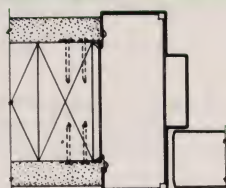
**WELDED HINGE
REINFORCEMENT**
4½" X 4½" FULL MORTISE
HINGES ONLY



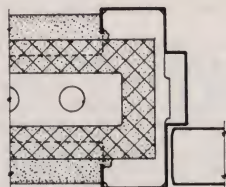
**WELDED STRIKE
REINFORCEMENT
AND PLASTER GUARD
FOR CYLINDRICAL LOCKS**



VERTICAL SECTION
THROUGH DOOR



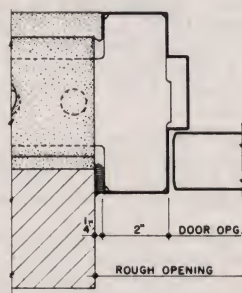
WOOD STUD
PARTITION



4" HOLLOW TILE
PARTITION



SOLID BRICK OR
CEMENT BLOCK WALL



SOLID MASONRY WALL
WITH PLASTER ONE SIDE

The diagrams illustrate four types of door handle configurations:

- LEFT HAND (SYMBOL LH):** The handle is on the left side of the door. The door swings inward (DOORS SWING IN). The label "OUTSIDE" is on the left.
- RIGHT HAND (SYMBOL RH):** The handle is on the right side of the door. The door swings inward (DOORS SWING IN). The label "OUTSIDE" is on the right.
- LEFT HAND REVERSE BEVEL (SYMBOL LHRB):** The handle is on the left side of the door. The door swings outward (DOORS SWING OUT). The label "OUTSIDE" is on the left.
- RIGHT HAND REVERSE BEVEL (SYMBOL RHRB):** The handle is on the right side of the door. The door swings outward (DOORS SWING OUT). The label "OUTSIDE" is on the right.

TO DETERMINE HAND OF DOOR ALWAYS VIEW FROM
OUTSIDE.

- The hand of a door is determined by location of hinges when door is viewed from the outside. See illustration above.
- The **outside** of a door is the street side of an entrance door, and the corridor side of a room door.
- The **outside** of a communicating door (from one room to another) is the side from which the hinges are not visible when the door is closed.
- The **outside** of a closet door is the room side, thus reversing the rule which applies to other doors.
- Symbols for hand and swing of door are shown above, and should be used in ordering doors, frames and hardware.

TRUSCON 1 $\frac{3}{8}$ " HOLLOW METAL DOORS

SWING DOORS AND FRAMES — SERIES 50



Truscon Series 50 Steel Doors and Frames are made from high quality steel and reinforced to provide maximum rigidity. They will not warp, twist, shrink or swell. Doors are sound deadened for quiet operation, and are bonderized for maximum rust protection and paint adherence. Finished with a baked-on prime coat of paint. Mass production economies and low installation costs assure an economical installation in any type of building.

Doors are 1 $\frac{3}{8}$ " thick and of a pleasing, flush design. They are available in the standard height of 6'-8", and with the six most popular widths, 1'-8", 2'-0", 2'-4", 2'-6", 2'-8" and 3'-0". Also available are doors with louvers, glass or vision panels, combinations and double doors. Four types of cylindrical locksets (2 $\frac{3}{8}$ " backset), designed to meet all normal requirements of residential doors, are offered. They are in accordance with Federal Specification FF-H-106a, Series 160 of dull bronze U.S. 10 material. Truscon now offers, in addition to the above, doors prepared to receive 2 $\frac{3}{4}$ " backset heavy duty hardware. Available in popular types and sizes from warehouse stocks. Others from factory only.

Frames for the doors are designed to fit practically every type of wall construction. Shipped knocked-down, they are easily and quickly assembled with the corner connections forming neat hairline joints. Frames are available in depths of 2 $\frac{3}{4}$ ", 3 $\frac{1}{4}$ ", 4 $\frac{1}{4}$ ", 5 $\frac{1}{4}$ " and 6 $\frac{1}{4}$ ", with all except the 3 $\frac{1}{4}$ " door frames procurable from warehouses in the stock door sizes mentioned above.

Doors shipped from warehouse stocks are bound with heavy corrugated paper strips for protection during shipment. Each door leaf is designed for use in either right or left hand swing, and to open in or out. Frames, however, must be ordered right or left hand to accommodate required swing of door and are bundled for shipment. Frames complete with hinges, rubber bumpers and strike plates are available for use with wood doors.

Underwriters' Labeled Doors and Frames are available in popular types and sizes from warehouses. Others are available from the factory. Consult the nearest Truscon representative for detailed information.

SPECIFICATIONS

1. General—Doors and frames shall be Truscon Hollow Metal Steel Doors and Frames, Series 50, as manufactured by Republic Steel Corporation, Truscon Division, Youngstown, Ohio.

2. Swing Doors—Doors shall be of flush construction, 1 $\frac{3}{8}$ " in thickness. Door stiles shall be constructed of 20 gauge steel roll-formed with $\frac{1}{8}$ " bevel in 2" on edges and reinforced for hinges and locks with steel plates welded in place. Panels shall be constructed of 20 U. S. gauge prime quality cold rolled steel, roll-formed and mechanically stiffened to achieve flatness and rigidity. On doors over 2'-0", panels shall be reinforced at approximately 17" centers, alternating at front and rear so that a stiffener occurs at approximately every 8 $\frac{1}{2}$ " in the door. Stiffeners shall be U-shaped steel transverse sections, securely welded to the inside of the panel. The top and bottom of doors shall be reinforced and closed with die-formed steel channels securely spot welded to the inside of both panels.

3. Sound Deadener—All doors shall have sound deadening material of an approved type applied to the interior surface of panels. Sound deadener shall eliminate all metallic reverberations incident to normal door operation. The sound deadener consists of a composition felt material applied to the interior surface of the panels.

4. Hardware—Doors shall be prepared to receive cylindrical type locks in accordance with Federal Specifications FF-H-106a, Series 160 or Series 161, as specified.

5. Miscellaneous Hardware—The items hereinafter mentioned shall not be included under the door contract but preparation to receive same shall be provided as described.

(A) Door Closers—Door and frame shall be adequately reinforced at points of application. The drilling and tapping for installation shall be performed in field to permit maximum accuracy by using the door closer as a template.

(B) Push-Pull Plates—Standard hardware cutout shall be omitted from door and frame upon request—factory shipment only. Installation with through machine screws shall be made in field.

(C) Door Stops and Holders (Not provided for by Truscon)—To be installed in field with sheet metal screws.

(D) Kick Plates (Not provided for by Truscon)—To be installed in field with sheet metal screws.

6. Frames—Frames shall be of rabbeted design, 2 $\frac{3}{4}$ ", 3 $\frac{1}{4}$ ", 4 $\frac{1}{4}$ ", 5 $\frac{1}{4}$ " or 6 $\frac{1}{4}$ " in depth as shown on plans and/or in door schedule. They shall be constructed of 18 U. S. gauge steel except that the 2 $\frac{3}{4}$ " frames shall be of 16 gauge steel. All frames shall be of knocked-down type with ends of members forming upper frame corners specially designed, insuring a square and solid joint held securely in place by double tenon construction with tenons bent to firmly lock the assembly. The strike cutout shall be provided with heavy gauge steel reinforcement, securely spot welded in the jamb.

(A) Hardware—Frames shall be equipped with two 3-knuckle leaf hinges (3 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ ") welded in place at the factory. The two knuckle leaves of hinges, hinge pins and No. 10-24 flat head machine screws shall be furnished separately for attaching door. Three rubber bumpers shall be provided for each frame.

(B) Anchors—Each frame shall be equipped with eight welded anchors for rigid attachment to metal or wood studs. For masonry walls six loose adjustable anchors per frame shall be furnished, and, if required, two adjustable floor anchors.





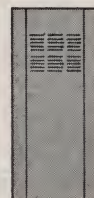



7. Shop Finish—All doors and frames shall be bonderized for maximum rust protection and paint adherence. In addition they shall receive one shop coat of high grade gray paint, oven-baked.

Note: We reserve the right to amend specifications and details, without notice, in the interest of product improvement.

TRUSCON 1 3/8" HOLLOW METAL DOORS AND FRAMES—SERIES 50

TYPES AND SIZES

LEAF DESIGN AND GLASS SIZES

SINGLE SWING DOORS										
Single Swing Type	Door Opening Dimensions		FP	GP	VP	L2B	L2T	L2TB	GP L2B	VP L2B
	Width	Height		Glass Size	Glass Size	Free Air Passage (Square Inches)			Glass Size	Glass Size
1868	1'-8"	6'-8"				19.2	19.2	38.4		
2068	2'-0"	6'-8"		10" x 30"	10" x 10"	26.4	26.4	52.8	10" x 30"	10" x 10"
2468	2'-4"	6'-8"		14" x 30"	10" x 10"	38.4	38.4	76.8	14" x 30"	10" x 10"
2668	2'-6"	6'-8"	★	★16" x 30"	★10" x 10"	★39.6	★39.6	79.2	16" x 30"	10" x 10"
2868	2'-8"	6'-8"	★	★18" x 30"	★10" x 10"	★39.6	★39.6	79.2	18" x 30"	10" x 10"
3068	3'-0"	6'-8"	★	★22" x 30"	★10" x 10"	★57.6	★57.6	79.2	22" x 30"	10" x 10"

Any of the above doors can be furnished as pairs. Door opening widths to be double that of single doors.

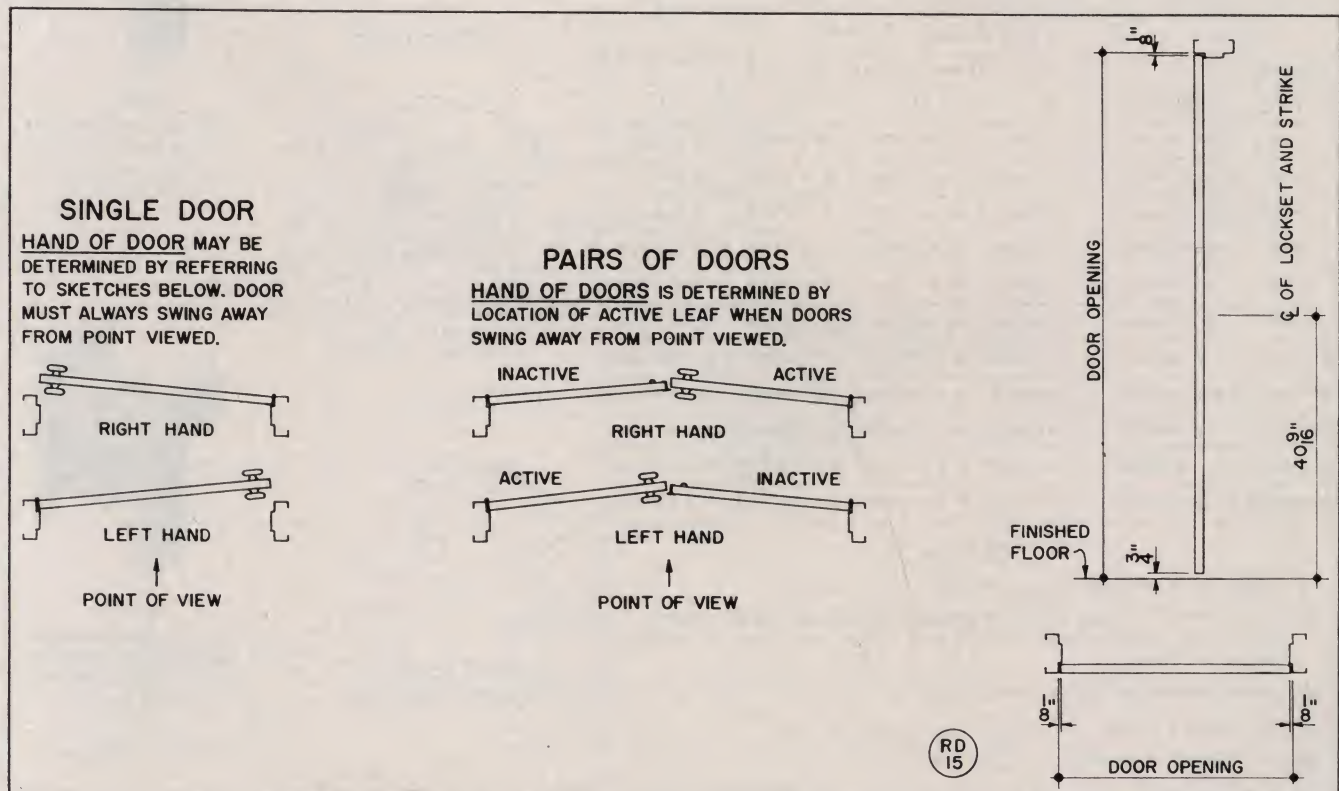
Warehouse stock doors include single swing units indicated in shaded blocks under leaf design. Any warehouse stock door leaf listed above may be modified and used with any similar size single swing door leaf to compose a pair of doors. Necessary modifications are made in warehouse.

Doors with "L3B," "L3T" or "L3TB" louvers are available for factory shipment.

All sizes and types of doors shown above, but not warehoused, are available for factory shipment.

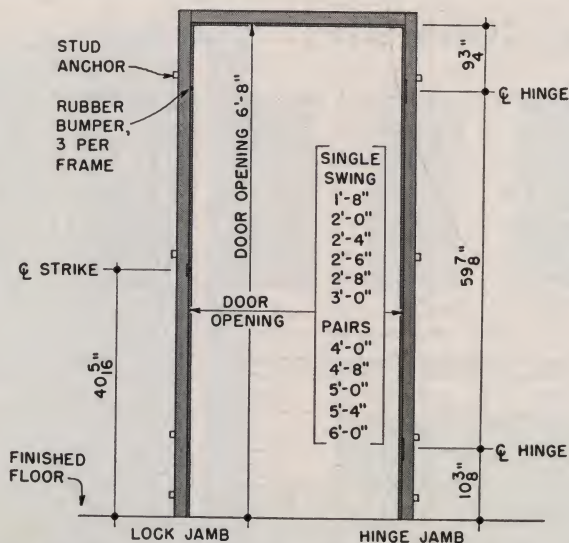
Doors and frames are prepared for cylindrical type locks in accordance with Federal Specifications FF-H-106a, Series 160. (2 3/8" backset.)

Those items indicated with a star (★) are also available from warehouse stocks prepared for cylindrical type locks in accordance with Federal Specifications FF-H-106a, Series 161. (2 3/4" backset.)



TRUSCON 1 3/8" HOLLOW METAL DOORS AND FRAMES—SERIES 50

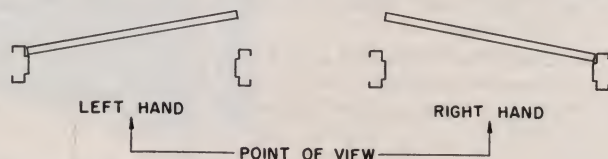
FRAMES FOR SWING DOORS



ELEVATION - TYPICAL SWING DOOR FRAME

FOR STUD OPENING SIZES USE DOOR OPENING DIMENSIONS SHOWN AND ADD 4 1/2" IN WIDTH AND 2 1/4" IN HEIGHT

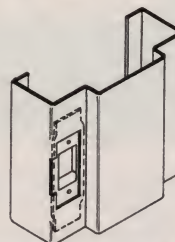
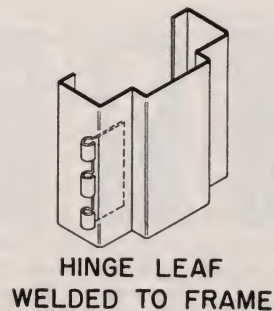
HAND OF FRAME IS DETERMINED BY REFERRING TO SKETCHES BELOW. NOTE THAT DOOR MUST ALWAYS SWING AWAY FROM POINT VIEWED.



DOOR TYPE	FRAME TYPE				
	2 3/4"	FRAME DEPTHS			
	3 1/4"	4 1/4"	5 1/4"	6 1/4"	
1868	★ 2-1868	3-1868	★ 4-1868	★ 5-1868	★ 6-1868
2068	★ 2-2068	3-2068	★ 4-2068	★ 5-2068	★ 6-2068
2468	★ 2-2468	3-2468	★ 4-2468	★ 5-2468	★ 6-2468
2668	★ 2-2668	3-2668	★ 4-2668	★ 5-2668	★ 6-2668
2868	★ 2-2868	3-2868	★ 4-2868	★ 5-2868	★ 6-2868
3068	★ 2-3068	3-3068	★ 4-3068	★ 5-3068	★ 6-3068
◆ 4068DS	★ 2-4068DS	3-4068DS	★ 4-4068DS	★ 5-4068DS	★ 6-4068DS
◆ 4868DS	★ 2-4868DS	3-4868DS	★ 4-4868DS	★ 5-4868DS	★ 6-4868DS
◆ 5068DS	★ 2-5068DS	3-5068DS	★ 4-5068DS	★ 5-5068DS	★ 6-5068DS
◆ 5468DS	★ 2-5468DS	3-5468DS	★ 4-5468DS	★ 5-5468DS	★ 6-5468DS
◆ 6068DS	★ 2-6068DS	3-6068DS	★ 4-6068DS	★ 5-6068DS	★ 6-6068DS

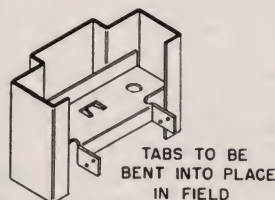
NOTES

- ★ DENOTES WAREHOUSE STOCK FRAMES.
- "R. H" OR "L. H" (HAND OF FRAME) MUST FOLLOW THE FRAME SYMBOL. SEE "HAND OF FRAME" ABOVE FOR SINGLE DOORS AND PAGE 10 FOR PAIRS OF DOORS
- ◆ DENOTES PAIRS OF SWING DOORS ONLY
- 2 3/4" FRAMES ARE OF 16GA STEEL; ALL OTHERS OF 18GA
- ◆ TOP STRUTS REQUIRED FOR 2 3/4" FRAMES

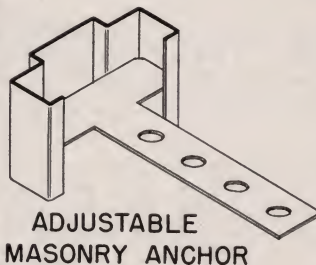


WELDED STRIKE REINFORCEMENT

ANCHORS



WELDED STUD ANCHOR
4 PER JAMB
ATTACHED IN SHOP

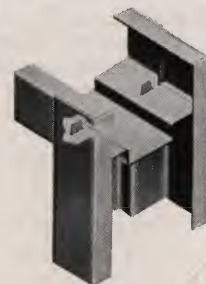


ASSEMBLY OF DOOR FRAMES



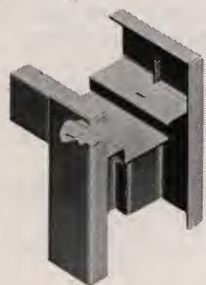
STEP 1

Jamb and Head Members before assembly



STEP 2

Jamb and Head Members partially assembled. Note two tenons ready to be bent in place



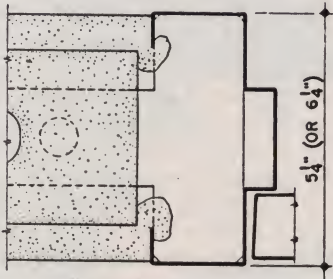
STEP 3

Jamb and Head Members assembled. The two tenons bent in place, securely locking the joint

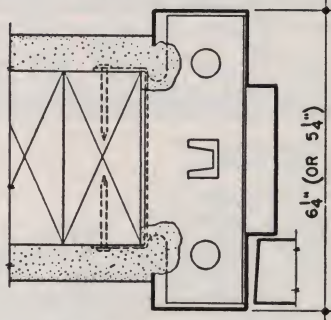
(PATENT No. 2601164)

TRUSCON 1 $\frac{3}{8}$ " HOLLOW METAL DOORS AND FRAMES—SERIES 50
FRAMES FOR SWING DOORS

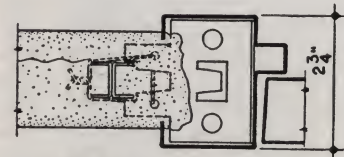
FRAME INSTALLATION DETAILS



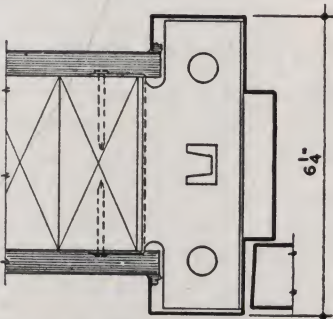
MASONRY WALL



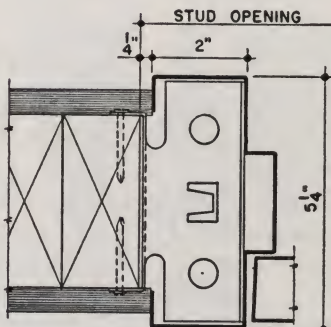
WOOD STUD WALL



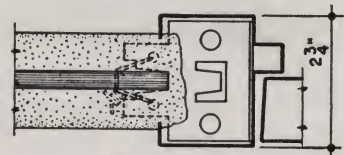
2" SOLID PLASTER
PARTITION WITH
METAL LATH CORE
(TOP STRUTS REQUIRED)



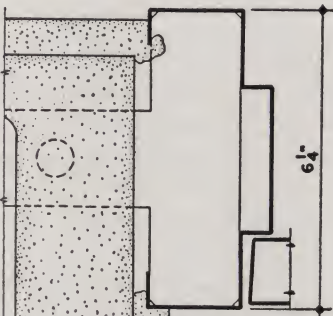
DRY WALL



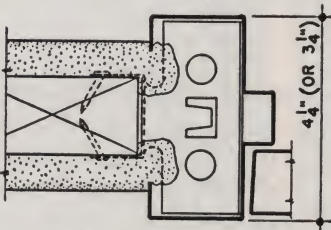
DRY WALL



2" PLASTER
PARTITION WITH
ROCKLATH CORE
(TOP STRUTS REQUIRED)

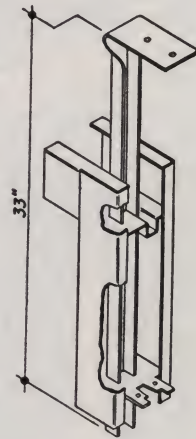


HEAVY MASONRY
WALL



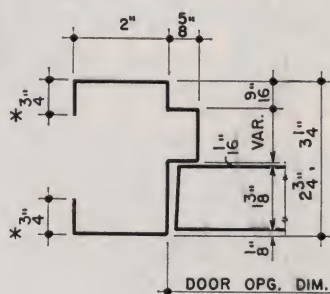
WOOD STUD WALL

TOP
STRUT
FURNISHED FOR
2" SOLID
PLASTER
PARTITIONS

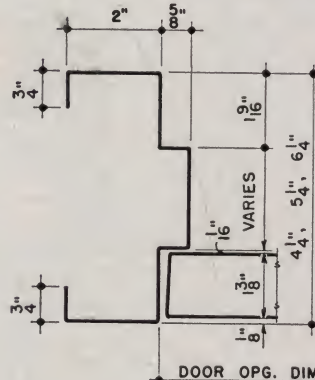


FRAME DETAILS

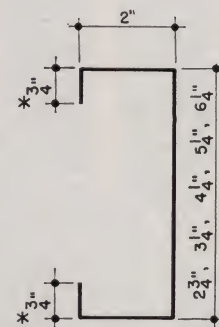
* THIS DIMENSION IS $\frac{1}{2}$ "
FOR 2 $\frac{3}{4}$ " FRAMES.



DOOR OPG. DIM.



DOOR OPG. DIM.



TRIM
FRAMES

RD
12

● 2 $\frac{3}{4}$ " FRAMES ARE FORMED
FROM 16GA. STOCK. ALL
OTHERS ARE 18 GAUGE.

★ WAREHOUSE STOCK FRAMES
ARE 2 $\frac{3}{4}$ ", 4 $\frac{1}{4}$ ", 5 $\frac{1}{4}$ " AND 6 $\frac{1}{4}$ "
DEPTHS.

SWING DOOR FRAMES

TRUSCON STEEL SLIDING CLOSET DOORS—SERIES 51 AND 51B



SLIDING CLOSET DOORS

These modern Sliding Doors provide total closet accessibility, more usable floor space and materially reduce construction costs. Outstanding economy is obtained through the elimination of material and labor required, (1) to construct and plaster approximately one-half the area occupied by the full width of the Sliding Door opening, and (2) to furnish and install frame, swing door and hardware.

Series 51 and 51B Flush Type Sliding Closet Doors are precision made of prime quality cold rolled sheets heavily reinforced for rigidity, thus insuring perfect fit and permanent trouble-free operation. All Truscon doors are bonderized to provide maximum resistance to corrosion, and finished with a prime coat of baked-on paint. Each door panel is equipped with two noiseless nylon rollers, nylon top guides and rubber bumpers at jambs to provide smooth, quiet operation.

Finger pulls are fitted into each side of both panels at the factory. Units are available in four standard widths, 3'-0", 4'-0", 5'-0" and 6'-0". Height of doors is 6'-8".

SERIES 51B—FRAMED UNITS

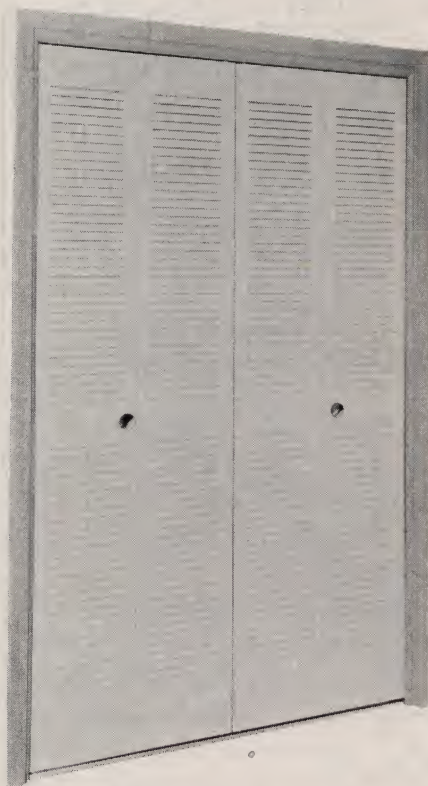
Series 51B Sliding Closet Doors differ from the Series 51 only in that they are equipped with a knocked-down door frame matching that of the swing doors in appearance and assembly. Materials are packaged in sturdy cartons with the exception of the door frames. The necessity of wood bucks and trim is eliminated in this type of installation.

SERIES 51—"KD" PACKAGE UNITS

Series 51 Sliding Closet Doors are shipped from warehouse stock as complete units, packaged in sturdy cartons containing two door panels, all necessary hardware, and accurately punched header, jamb and track sections; also all screws for assembly and installation in wood frame partitions. Wood trim is not included.

TRUSCON COLONIAL CLOSET DOORS

LOUVERED STEEL FOLDING TYPE



ADVANTAGES

HARMONIOUS STYLING — Colonial Closet Doors are designed to harmonize with any decor. Their slim, clean lines are instantly appealing.

FULL ACCESSIBILITY — Doors fold open so that complete wall-to-wall accessibility is available. Hidden, hard-to-reach corners are eliminated.

ECONOMICAL — They are economically priced and, made of steel, they will never swell, warp or sag.

EASY INSTALLATION — The panels are simple and economical to install for either the amateur handy man or professional carpenter.

OPERATION — The sound-deadened doors open and close effortlessly and quietly on lifetime nylon pivots and nylon track guides.

VENTILATION — Although the doors are louvered primarily for appearance, they also offer a plus advantage for closet ventilation.

Truscon Colonial Closet Doors are constructed of 24 gauge prime quality cold rolled sheets. Folding panels are joined together with piano type hinges.

All units are furnished completely packaged including finger pulls, pivots, pilot brackets and top and bottom tracks. Cartons are of the heavy duty type offering full protection during shipment. Truscon Colonial Closet Doors are chemically cleaned and treated after which they receive a standard baked-on shop coat of cream colored prime paint.

In addition to the standard 6'-8" high folding closet doors, Truscon also offers the units in 8'-0" heights.

If a flush type of door is desired, Truscon's folding closet door can be furnished without louvers in any of the standard widths in either 6'-8" or 8'-0" heights.

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